



PTO/SB/01 (03-01)  
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**DECLARATION FOR UTILITY OR  
DESIGN  
PATENT APPLICATION  
(37 CFR 1.63)**

☒ Declaration Submitted with Initial Filing      OR      ☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number	06413 USA
First Named Inventor	Hoshang Subawalla, et al.
<b>COMPLETE IF KNOWN</b>	
Application Number	10/635,046
Filing Date	5 August 2003
Group Art Unit	1762
Examiner Name	

**As a below named inventor, I hereby declare that:**

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

PROCESSING OF SEMICONDUCTOR SUBSTRATES WITH DENSE FLUIDS COMPRISING  
ACETYLENIC DIOLS AND/OR ALCOHOLS

(Title of the Invention)

the specification of which

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY) 08/05/2003 as United States Application Number or PCT International

Application Number 10/635,046 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

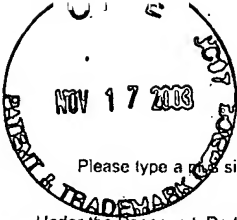
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 2]

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Please type a plus sign (+) inside this box → ☒

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## DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☒ Customer Number or Bar Code Label **23543** OR ☐ Correspondence address below

Name

Address

Address

City

State

ZIP

Country

Telephone

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR :

☐ A petition has been filed for this unsigned inventor

Given Name  
(first and middle (if any)) Hoshang

Family Name  
or Surname Subawalla

Inventor's  
Signature

*Hoshang Subawalla*

August 7, 2003  
Date

Residence: City Macungie

PA  
State

USA  
Country

India  
Citizenship

Mailing Address 2790 Sequoia Drive

Mailing Address

City Macungie

PA  
State

18062  
ZIP

USA  
Country

NAME OF SECOND INVENTOR:

☐ A petition has been filed for this unsigned inventor

Given Name  
(first and middle (if any)) Gene Everad

Family Name  
or Surname Parris

Inventor's  
Signature

*Gene Everad Parris*

August 8, 2003  
Date

Residence: City Coopersburg

PA  
State

USA  
Country

Nevis, West Indies  
Citizenship

Mailing Address 1953 Peppermint Road

Mailing Address

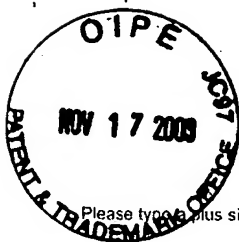
City Coopersburg

PA  
State

18036  
ZIP

USA  
Country

☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.



Please type plus sign (+) inside this box → ☐

PTO/SB/02A (11-00)

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## DECLARATION

ADDITIONAL INVENTOR(S)  
Supplemental Sheet  
Page 1 of 2

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Christopher Jon		Mammarella	
Inventor's Signature <i>Jon Mammarella</i>		Date <i>August 13, 2003</i>	
Residence: City	Lehighton	State	PA
Country	USA	Citizenship	USA
Mailing Address 131 Mountain View Drive			
Mailing Address			
City	Lehighton	State	PA
ZIP	18235	Country	USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Bridget Lynn		O'Brien	
Inventor's Signature <i>Bridget Lynn O'Brien</i>		Date <i>August 11, 2003</i>	
Residence: City	Allentown	State	PA
Country	USA	Citizenship	USA
Mailing Address 711 Cedar Hill Road			
Mailing Address			
City	Allentown	State	PA
ZIP	18109	Country	USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Keith Randolph		Fabregas	
Inventor's Signature <i>Keith Randolph Fabregas</i>		Date <i>August 8, 2003</i>	
Residence: City	Nazareth	State	PA
Country	USA	Citizenship	USA
Mailing Address 509 Timberlea Drive			
Mailing Address			
City	Nazareth	State	PA
ZIP	18064	Country	USA

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## DECLARATION

## ADDITIONAL INVENTOR(S)

### Supplemental Sheet

Page 2 of 2

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Madhukar Bhaskara		Rao	
Inventor's Signature <i>Madhukar Bhaskara Rao</i>		Date <i>August 7, 2003</i>	
Residence: City	Fogelsville	State	PA
		Country	USA
Mailing Address 8782 Summit Circle			
Mailing Address			
City	Fogelsville	State	PA
		ZIP	18051
		Country	USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Christine Peck		Kretz	
Inventor's Signature <i>Christine Peck Kretz</i>		Date <i>August 18, 2003</i>	
Residence: City	Macungie	State	PA
		Country	USA
Mailing Address 2199 Greenmeadow Drive			
Mailing Address			
City	Macungie	State	PA
		ZIP	18062
		Country	USA
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle [if any])		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	
		Country	
Mailing Address			
Mailing Address			
City		State	
		ZIP	
		Country	

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PTO/SB/81 (06-03)

Approved for use through 11/30/2005. OMB 0651-0035

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**POWER OF ATTORNEY  
and  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

Application Number	10/635,046
Filing Date	5 August 2003
First Named Inventor	Hoshang Subawalla, et al.
Title	Processing of Semiconductor Substrates...
Art Unit	1762
Examiner Name	
Attorney Docket Number	06413 USA

I hereby appoint:



Practitioners at Customer Number:

23543

OR



Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:



The above-mentioned Customer Number:

OR



The address associated with Customer Number:

OR

Firm or  
Individual Name

Address

Address

City

State

Zip

Country

Telephone

Fax

I am the:



Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)**SIGNATURE of Applicant or Assignee of Record**

Name	Mark L. Rodgers
Signature	<i>Mark L. Rodgers</i>
Date	13 November 2003
Telephone	610-481-8817

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.



\*Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Hoshang Subawalla, et al.  
Application No./Patent No.: 10/635,046 Filed/Issue Date: 5 August 2003  
Entitled: Processing of Semiconductor Substrates with Dense Fluids Comprising Acetylenic Diols...  
Air Products and Chemicals, Inc., a corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or  
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.  
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.  
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.  
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

13 November 2003

Date

Mark L. Rodgers

Typed or printed name

[Signature]  
Signature

Assistant General Counsel, Patents

Title

ASSIGNMENT

For value received, we, Hoshang Subawalla, Gene Everad Parris, Christopher Jon Mammarella, Bridget Lynn O'Brien, Keith Randolph Fabregas, Madhukar Bhaskara Rao, and Christine Peck Kretz, hereby sell, assign, and transfer to **AIR PRODUCTS AND CHEMICALS, INC.**, a corporation of the State of Delaware, having an office at 7201 Hamilton Boulevard, Allentown, PA 18195-1501, the entire right, title, and interest in and to the invention relating to

**PROCESSING OF SEMICONDUCTOR SUBSTRATES WITH DENSE FLUIDS COMPRISING ACETYLENIC DIOLS AND/OR ALCOHOLS**

described in our application for Letters Patent of the United States (identified by Docket No. 06413 USA) executed of even date herewith, in and to all Letters Patent which may be issued upon said application, in and to any divisional or reissue applications based thereon, and in and to all Letters Patent upon said invention or improvements which may be granted in foreign countries. We hereby also assign and convey to said **AIR PRODUCTS AND CHEMICALS, INC.**, all the rights accruing to us by virtue of the International Convention for the Protection of Industrial Property (Art. 4), including the right to apply for and to have patents issued in its own name.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and the Officials of the Patent Offices of all other countries to issue the Letters Patent of their respective countries to said **AIR PRODUCTS AND CHEMICALS, INC.**, as assignee of the entire right, title, and interest in and to the same.

And we hereby promise and agree to execute all papers and perform all acts necessary to secure to and vest in said **AIR PRODUCTS AND CHEMICALS, INC.**, its successors and assigns, the rights conveyed as herein set forth.

Hoshang Subawalla (L.S.)  
Hoshang Subawalla

August 7, 2003  
Date

Gene Everad Parris (L.S.)  
Gene Everad Parris

August 8, 2003  
Date

Christopher Jon Mammarella (L.S.)  
Christopher Jon Mammarella

August 13, 2003  
Date

Bridget Lynn O'Brien (L.S.)  
Bridget Lynn O'Brien

August 11, 2003  
Date

Keith Randolph Fabregas (L.S.)  
Keith Randolph Fabregas

August 8, 2003  
Date

Madhukar Bhaskara Rao (L.S.)  
Madhukar Bhaskara Rao

August 7, 2003  
Date

Christine Peck Kretz (L.S.)  
Christine Peck Kretz

August 18, 2003  
Date